

Appendix R:
Approved Courses for a Computer Science Unit as Required in Regulation 43-234

Courses	Units	Courses	Units
<u>Arts, A/V Technology, and Communications Cluster</u>		<u>Information Technology Cluster</u>	
*Architectural Design w/CADD	1	*Advanced Computer Repair and Service	1
*Graphic Communication	1	*Computer Operating Systems	1
*Mechanical Design w/CADD	1	*Advanced Computer Operating Systems	
		*Cyber Security Foundations	1
<u>Business Management and Administration Cluster</u>		Database Design & Programming w/ SQL	1
Computer Applications	½	Database Programming w/ PL-SQL	1
Digital Desktop Publishing	1	*Exploring Computer Science	1
Digital Input Technologies	½, 1	Foundations of Animation	1
Digital Literacy	½	*Game Design and Development	1
Digital Multimedia	½, 1	*GIS (Geographical Information Systems) 1, 2	1
Google Applications	1	Information Technology Foundations	1
Google Basics	½	*IT Fundamentals	1
Image Editing 1, 2	1	*Java Fundamentals and Java Programming	1
Integrated Business Applications 1, 2	1	*Networking Fundamentals	1
Keyboarding	½	*Advanced Networking	1
Multimedia Basics	½	SAS Programming 1, 2	1
Social Media in Business	1	Web Page Design and Development 1, 2	1
<u>Computer Education</u>		<u>Marketing Cluster</u>	
*AP Computer Science A	1	Digital Media Marketing	1
<u>Information Technology Cluster</u>		<u>Science, Technology, Engineering, and Mathematics Cluster</u>	
Advanced Animation	1	*Aerospace Engineering	1
*Advanced Cyber Security	1	*Biotechnical Engineering	1
*Computer Forensics	1	*Civil Engineering and Architecture	1
Computer Programming 1, 2	1	*Computer Integrated Manufacturing	1
Computer Programming w/ C++ 1, 2	1	*Digital Electronics	1
Computer Programming w/ Java 1, 2	1	*Introduction to Engineering Design	1
Computer Programming w/ Visual Basic 1, 2	1	*Principles of Engineering	1
*Computer Repair and Services	1		

***Local School Districts must document mastery of keyboarding proficiency for these courses.**

CRITERIA FOR DESIGNATING A COURSE NOT SPECIFICALLY LISTED ABOVE AS SATISFYING THE COMPUTER SCIENCE REQUIREMENT FOR GRADUATION

- The course must provide 90% to 100% of hands-on instruction as it relates to the computer functions, operation, and manipulation of the computer.
- The course must emphasize one or both of the following areas of instruction:
 Programming
 Software applications
- The required computer science unit may consist of a combination of two half-units of courses that qualify as computer science.
- Courses in which the computer is used as a tool and/or an enhancement for learning subject matter would not qualify based on the above criteria for computer science designation.

Computer-based courses recommended to be added in any of these categories may count as part of the computer science requirement if they meet the criteria outlined below, and an innovative course application has been submitted and approved by the Office of Career and Technology Education. Innovative applications may be submitted to Anthony L. Dillon, Education Associate, SC Department of Education, 1429 Senate Street–Room 922, Columbia, South Carolina 29201.

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